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Published before December 2004

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1 [An XML-based visual shading language for vertex and fragment shaders](#)



Frank Goetz, Ralf Borau, Gitta Domik

April Web3D '04: Proceedings of the ninth international conference on 3D Web
2004 technology

Publisher: ACM

Full text available: [pdf\(570.33](#)



[Additional Information: full citation, abstract, references, cited by,](#)

[index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 78, Citation Count: 1

This paper presents a new system for the visual development of complex vertex and fragment shaders. The system makes usage of the advantages of visual programming languages. The core of the system is a Java program. With this program users can develop ...


Keyw ords: Extensible 3D (X3D), Extensible Markup Language (XML), dataflow programming, fragment shader, shading languages, vertex shader, visual programming

2 Towards a road map on human language technology: natural language processing

Andreas Eisele, Dorothea Ziegler-Eisele

August 2002 COLING-02 on A roadmap for computational linguistics - Volume 13, Volume 13

Publisher: Association for Computational Linguistics

Full text available:  pdf(270.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 131, Citation Count: 0


This document summarizes contributions and discussions from two workshops that took place in November 2000 and July 2001. It presents some visions of NLP-related applications that may become reality within ten years from now. It investigates the technological ...

3 UnQL: a query language and algebra for semistructured data based on structural recursion

Peter Buneman, Mary Fernandez, Dan Suciu

March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(414.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 59, Citation Count: 28

This paper presents structural recursion as the basis of the syntax and semantics of query languages for semistructured data and XML. We describe a simple and powerful query language based on pattern matching and show that it can be expressed using structural ...

Keyw ords: Optimization, Query language, Semistructured data, Structural recursion, XML, XSL


4 Towards a semantics for XML markup



Allen Renear, David Dubin, C. M. Sperberg-McQueen

November 2002 DocEng '02: Proceedings of the 2002 ACM symposium on Document engineering

Publisher: ACM

Full text available:  pdf(72.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 92, Citation Count: 3

Although XML Document Type Definitions provide a mechanism for specifying, in machine-readable form, the syntax of an XML markup language, there is no comparable mechanism for specifying the *semantics* of an XML vocabulary. That is, there is no ...

Keyw ords: SGML, XML, knowledge representation, markup, semantics

5 XrML -- eXtensible rights Markup Language



Xin Wang, Guillermo Lao, Thomas DeMartini, Hari Reddy, Mai Nguyen, Edgar Valenzuela
November XMLSEC '02: Proceedings of the 2002 ACM workshop on XML security 2002

Publisher: ACM

Full text available: [pdf\(466.82 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 90, Citation Count: 2

XrML (eXtensible rights Markup Language) is an XML-based language for digital rights management (DRM), providing a universal method for specifying rights and conditions associated with the use and protection of digital content and services. Originally ...

Keyw ords: DRM, XML, content distribution and usage, digital rights management, rights, specification languages, standards

6 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2 2004

Publisher: ACM

Full text available: [pdf\(316.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 409, Citation Count: 13

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keyw ords: applications., definitions, foundations, taxonomy

7 Traversals of object structures: Specification and Efficient Implementation



Karl Lieberherr, Boaz Patt-Shamir, Doug Orleans

March ACM Transactions on Programming Languages and Systems
2004 (TOPLAS), Volume 26 Issue 2

Publisher: ACM

Full text available: [pdf\(333.93 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 84, Citation Count: 5

Separation of concerns and loose coupling of concerns are important issues in software engineering. In this paper we show how to separate traversal-related concerns from other concerns, how to loosely couple traversal-related concerns to the structural ...

Key words: Aspect-oriented programming, Low of Demeter, adaptive programming, class graphs, object graphs, strategy graphs, structure-shy software

8 On original generation of structure in legal documents



Steven O. Kimbrough, Thomas Y. Lee, Balaji Padmanabhan, Yinghui Yang

June ICAIL '03: Proceedings of the 9th international conference on Artificial
2003 intelligence and law

Publisher: ACM

Full text available: [pdf\(183.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 24, Citation Count: 0

This position paper advocates a vision in the development of automated legal reasoning and presents evidence supporting the plausibility of that vision. The paper observes that original creation of documents of legal import in either fully formal or ...

9 Unsupervised monolingual and bilingual word-sense disambiguation of medical documents using UMLS

Dominic Widdows, Stanley Peters, Scott Cederberg, Chiu-Ki Chan, Diana Steffen, Paul Buitelaar

July Proceedings of the ACL 2003 workshop on Natural language processing
2003 in biomedicine - Volume 13, Volume 13

Publisher: Association for Computational Linguistics

Full text available: [pdf\(163.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 15, Citation Count: 1

This paper describes techniques for unsupervised word sense disambiguation of English and German medical documents using UMLS. We present both monolingual techniques which rely only on the structure of UMLS, and bilingual techniques which also rely on ...

10 [Methods for the semantic analysis of document markup](#)



Petra Saskia Bayerl, Harald Lungen, Daniela Goecke, Andreas Witt, Daniel Naber
November 2003 DocEng '03: Proceedings of the 2003 ACM symposium on Document engineering

Publisher: ACM

Full text available: [pdf\(230.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 48, Citation Count: 0

We present an approach on how to investigate what kind of semantic information is regularly associated with the structural markup of scientific articles. This approach addresses the need for an explicit formal description of the semantics of text-oriented ...

Keyw ords: XML, information extraction, prolog, semantic analysis

11 [Speaking with hands: creating animated conversational characters from recordings of human performance](#)



Matthew Stone, Doug DeCarlo, Insuk Oh, Christian Rodriguez, Adrian Stere, Alyssa Lees, Chris Bregler
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Papers

Publisher: ACM

Full text available: [pdf\(240.69 KB\)](#) [mov\(25:14 MIN\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 183, Citation Count: 7

We describe a method for using a database of recorded speech and captured motion to create an animated conversational character. People's utterances are composed of short, clearly-delimited phrases; in each phrase, gesture and speech go together meaningfully ...

Keyw ords: animation, conversational agents, language generation, motion capture, motion synthesis, speech synthesis

12 [Complete answer aggregates for tree-like databases: a novel approach to combine querying and navigation](#)



Holger Meuss, Klaus U. Schulz

April 2001 ACM Transactions on Information Systems (TOIS), Volume 19 Issue 2

Publisher: ACM

Full text available: [pdf\(356.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 59, Citation Count: 4

The use of markup languages like SGML, HTML or XML for encoding the structure of documents or linguistic data has led to many databases where entries are adequately described as trees. In this context querying formalisms are interesting that offer the ...

Keywords: SGML, XML, answer presentation, information retrieval, logic, query languages, semistructured data, structured documents, tree databases, tree matching

13 [Proximal nodes: a model to query document databases by content and structure](#)



Gonzalo Navarro, Ricardo Baeza-Yates

October 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 4

Publisher: ACM

Full text available: [pdf\(550.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 106, Citation Count: 25

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras


14 [Spatial interpretation of domain objects integrated into a freeform electronic](#)

[whiteboard](#)

Thomas P. Moran, William van Melle, Patrick Chiu

November UIST '98: Proceedings of the 11th annual ACM symposium on User interface software and technology

Publisher: ACM

Full text available:  [pdf\(130.78](#)

[KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 54, Citation Count: 8

Keywords: customization, freeform interaction, gestural interfaces user interface design, implicit structure, informal systems, list structures, metting support tools, pen-based systems, recognition-based systems, tailorability, witeboard metaphor


15 [Information extraction from biomedical literature: methodology, evaluation and an](#)

[application](#)

L. Venkata Subramaniam, Sougata Mukherjea, Pankaj Kankar, Biplav Srivastava, Vishal S. Batra, Pasumarti V. Kamesam, Ravi Kothari

November CI KM '03: Proceedings of the twelfth international conference on 2003 Information and knowledge management

Publisher: ACM

Full text available:  [pdf\(261.26](#)

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 100, Citation Count: 5

Journals and conference proceedings represent the dominant mechanisms of reporting new biomedical results. The unstructured nature of such publications makes it difficult to utilize data mining or automated knowledge discovery techniques. Annotation ...

Keywords: biological document processing, information extraction

16 [PELLPACK: a problem-solving environment for PDE-based applications on](#)

[multicomputer platforms](#)

E. N. Houstis, J. R. Rice, S. Weerawarana, A. C. Catlin, P. Papachiou, K.-Y. Wang, M. Gaitatzes

March ACM Transactions on Mathematical Software (TOMS), Volume 24 Issue 1998 1

Publisher: ACM

Full text available:  [pdf\(26.30](#)

[MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 53, Citation Count: 18

The article presents the software architecture and implementation of the problem-solving environment (PSE) PELLPACK for modeling physical objects described by partial differential equations (PDEs). The scope of this PSE is broad, as PELLPACK incorporates ...

Keywords: PDE language, execution models, knowledge bases, libraries, parallel reuse methodologies, problem-solving environments, programming-in-the-large, software bus



17 [Speaking with hands: creating animated conversational characters from recordings of human performance](#)



Matthew Stone, Doug DeCarlo, Insuk Oh, Christian Rodriguez, Adrian Stere, Alyssa Lees, Chris Bregler

August ACM Transactions on Graphics (TOG), Volume 23 Issue 3
2004

Publisher: ACM

Full text available:  [pdf\(240.69 KB\)](#)  [mov\(25:14 MIN\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 183, Citation Count: 7

We describe a method for using a database of recorded speech and captured motion to create an animated conversational character. People's utterances are composed of short, clearly-delimited phrases; in each phrase, gesture and speech go together meaningfully ...

Keywords: animation, conversational agents, language generation, motion capture, motion synthesis, speech synthesis


18 [Rapper: a wrapper generator with linguistic knowledge](#)



David Mattox, Len Seligman, Ken Smith

November WIDM '99: Proceedings of the 2nd international workshop on Web information and data management

Publisher: ACM

Full text available:  [pdf\(822.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 12, Citation Count: 3

Database management systems are becoming available for semistructured data, however, these tools cannot be used on many real-world data sources (e.g., most web sites) in their native form. Often, wrappers are needed to extract information ...

Keywords: discovering structure, information extraction, semistructured data, web databases, wrapper generation

19 [Mapping and displaying structural transformations between XML and PDF](#)



Matthew R. B. Hardy, David F. Brailsford

November 2002 DocEng '02: Proceedings of the 2002 ACM symposium on Document engineering

Publisher: ACM

Full text available: [pdf\(439.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 93, Citation Count: 2

Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after ...

Keywords: PDF, XML, document structure transformation

20 [The case for explicit knowledge in documents](#)



Leslie Carr, Timothy Miles-Board, Arouna Woukeu, Gary Wills, Wendy Hall

October 2004 DocEng '04: Proceedings of the 2004 ACM symposium on Document engineering

Publisher: ACM

Full text available: [pdf\(296.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 51, Citation Count: 3

The Web is full of documents which must be interpreted by human readers and by software agents (search engines recommender systems clustering processes <i>etc. </i>). Although Web standards have addressed format obfuscation by using XML schemas ...

Keywords: document structure, knowledge writing, semantic web

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